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P. 001

Appl. No. 09/781,080

Provision. Amend. following RCE of Jan. 14, 2005, dated Jan. 25, 2005  
Readdr to Office action of Jan. 03, 2005FAX COPY**BEST AVAILABLE COPY**

28 (new): A vehicle in accordance with claim 27, wherein said stator of said toroidal electric motor is semi-annular in axial profile.

29 (new): A vehicle in accordance with claim 27, wherein said toroidal electric motor is a permanent-magnet ac motor with or without magnetic sensors positioned on said stator of said toroidal electric motor.

30 (new): A vehicle in accordance with claim 27, wherein [[an]] the addition of a set of hook or hitch means on the rear end of said vehicle converts said vehicle into a traction vehicle.

31 (new): A vehicle in accordance with claim 27, wherein said vehicle has an electronic communication link means a linking means of electronic communication to exchange the speed data of said toroidal electric motor or motors of said vehicle with the speed data of another toroidal electric motor or motors fully identical to said toroidal electric motor of another vehicle fully identical to said vehicle, and so on, [[to form]] forming an electronically linked train of vehicles, each vehicle from said electronically linked train of vehicles fully identical to said vehicle.

32 (new): A vehicle in accordance with claim 27, wherein said opening means fully encircled by said rotor of said toroidal electric motor has or have full or partial cover means hinged or movably linked either to said stator of said toroidal electric motor or to the body of said vehicle.

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Primit. Audit. following RCE of Jan. 14, 2005, dated Jan. 25, 2005  
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33 (new): A vehicle, the center of gravity of said vehicle in the ground-contacting half of the horizontal section of said vehicle; said vehicle vehicle, comprising:

one large annulate wheel; said large annulate wheel comprising

a large toroidal [[hub,]] hub and a correspondingly large toroidal axle joined to said vehicle to rotatably position and urge said large toroidal hub to effect rotatory movements of said large annulate wheel;

at least one full rotor with magnetic and/or electromagnetic means of an electric motor, attached to or integrated with said large toroidal hub;

at least one stator with magnetic and/or electromagnetic means of said electric motor, attached to or integrated with said large toroidal axle;

at least one opening always fully encircled by said full rotor with magnetic and/or electromagnetic means of said electric motor, which is large enough to allow the entry and exit of [[the]] a passenger of said vehicle, through said large toroidal axle;

a bearing means linked to said large toroidal hub and said correspondingly large toroidal axle to decrease the friction between said large toroidal hub and said large toroidal axle during said rotatory movements of said large annulate wheel;

one more said large annulate wheel placed apart near coaxially from the first said large annulate wheel near coaxially, wheel;

a source of electric power connected by electrical and/or electronic connecting and processing units to each said electric motor on each said large annulate wheel, to rotatably urge each said electric motor [[which]] mechanically [[transfers]] transferring a torque to each said large annulate wheel; and

seating means to allow the passenger or passengers of said vehicle to sit at will facing any of the two ends of said vehicle, conventionally defined as the front end and the rear end.

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Prvlin. Amend. following RCE of Jan. 14, 2005, dated Jan. 25, 2005  
Reply to Office action of Jan. 03, 2005

34 (new): A vehicle in accordance with claim 33, wherein said stator with magnetic and/or electromagnetic means of said electric motor is semi-annular in axial profile.

35 (new): A vehicle in accordance with claim 33, wherein said electric motor is a permanent-magnet ac motor with or without magnetic sensors positioned on said stator with magnetic and/or electromagnetic means of said electric motor.

36 (new): A vehicle in accordance with claim 33, wherein [[an]] the addition of a set of hook or hitch means on the rear end of said vehicle converts said vehicle into a traction vehicle.

37 (new): A vehicle in accordance with claim 33, wherein said vehicle has an electronic communication [[link]] linking means to exchange data from said electrical and electronic connecting and processing units of said vehicle with data from the electrical and electronic connecting and processing units of another vehicle, and so on, [[to form]] forming a linked train of [[vehicles;]] vehicles, each vehicle from said linked train of vehicles [[is]] functionally identical with said vehicle and each of the electrical and electronic connecting and processing units [[is]] functionally identical with each of said electrical and electronic connecting and processing units.

38 (new): A vehicle in accordance with claim 33, wherein said opening fully encircled by said full rotor with magnetic and/or electromagnetic means of said electric motor has full or partial cover means hinged or movably linked either to said large toroidal axle or to said vehicle.